

CLAIMS

1. A cable, having connecting portions to which external terminals are connected and which are provided on both ends, and an intermediate portion connecting these connecting portions to each other, said cable comprising:

a plurality of elastomer sheets having non-electroconductivity;

wherein each of said elastomer sheets has a pair of wide ends, and a narrow intermediate portion provided between the ends, with m rows of rectangular elastomer regions having electroconductivity being arrayed on each of the pair of said wide ends and k patterns (wherein k is a number equal to or less than m) of transmission paths connecting said rectangular elastomer regions being formed at said narrow intermediate portion;

and wherein n layers (wherein n is a number equal to or less than m) of said plurality of elastomer sheets are layered such that the rectangular elastomer regions of the upper and lower layers are mutually in contact, and connected with said external connecting terminals by pressuring said external connecting terminals against both ends of said elastomer sheets which have been layered.

2. A cable according to Claim 1, capable of flexible bending.

3. A manufacturing method for a cable, comprising:

an electroconductive portion formation step for providing electroconductive elastomer on a non-electroconductive elastomer member formed in the shape of said cable so as to obtain an elastomer member;

a cutting step for cutting said elastomer member into sheets to obtain elastomer sheets;

a transmission path formation step for forming transmission paths on the surface of said elastomer sheets;
and

a sheet layering step for layering and adhering said plurality of elastomer sheets.